HOONAH SOUND HERRING SPAWN-ON-KELP POUND FISHERY 1994 MANAGEMENT PLAN



Regional Information Report¹ No. 1J94-04

Alaska Department of Fish and Game Commercial Fisheries Management and Development Division Juneau, Alaska

January 1994

The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished divisional reports. These reports frequently serve diverse ad hoc informational purposes or archive basic uninterpreted data. To accommodate timely reporting of recently collected information, reports in this series undergo only limited internal review and may contain preliminary data; this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited without prior approval of the author or the Commercial Fisheries Management and Development Division.

TABLE OF CONTENTS

<u>P</u>	age
LIST OF TABLES	iii
LIST OF FIGURES	iii
INTRODUCTION	1
REGULATIONS	2
FISHERY LOCATION	3
HERRING STOCK STATUS	3
PERMIT APPLICATION PROCEDURES	4
PERMIT REQUIREMENTS	4
HARVEST OF KELP	7
ALLOCATION OF GUIDELINE HARVEST	7
HARVEST AND PRODUCTION	7
FISHERY CONDUCT AND MANAGEMENT	8
REQUIREMENTS FOR BUYERS	8
LICENSE REQUIREMENTS	9
NEW REGULATIONS EFFECTIVE IN 1995	9
OTHER AGENCY REQUIREMENTS	10
U.S. Forest Service	10
National Marine Fisheries Service	11
United States Coast Guard	11
LIST OF MANAGEMENT CONTACTS	16

LIST OF TABLES

	<u>Pag</u>	<u>e</u>
1.	Hoonah Sound herring stock spawn survey, 1981-1993	2
2.	Hoonah Sound herring spawn-on-kelp fishery summary, 1990-1993	3
	LIST OF FIGURES	
	<u>Pag</u>	<u>e</u>
1.	Spawn-on-Kelp boundary area for herring pound structures	4
2.	Coast Guard requirements for marking pounds	5

INTRODUCTION

This plan provides an overview of the management approach and regulations for the 1994 Hoonah Sound Spawn-On-Kelp Pound Fishery. Staff biologists listed at the end of this document are available to answer questions pertaining to this plan. Pound operators are also advised to review requirements of other agencies as described on pages 9-11.

A pound fishery involves releasing sexually mature herring into a net impoundment in which kelp is suspended. The herring are released from the pound after they spawn on the kelp, and the kelp with eggs is sold.

In 1993, 115 fishermen operated pounds in Hoonah Sound. They harvested 14.0 tons of spawn-on-kelp valued at \$345,000. This compared to 1992 when 120 operators harvested 23.1 tons valued at \$322,000.

Historical herring spawning information for Hoonah Sound is shown in Table 1. In 1993, approximately 5.8 nautical miles of spawn were observed from April 27-29. The spawning biomass estimate derived from dive surveys was 1,100 tons of herring. The threshold, or minimum amount of herring spawning biomass for this fishery to occur, has been set at 1,000 tons. A summary of pertinent information for this fishery is shown in Table 2.

The following is a calendar of events to be considered by pound operators.

December 21 - Department of Fish and Game pound permit applications will be available.

January 31 - Deadline for submitting an application to the Department of Fish and Game for a pound permit.

February 8 - The department will issue a permit to each applicant that has met the January 31 deadline.

February 10 - U.S. Forest Service special-use permit applications are due.

April 1 - A completed pound must be present on the fishing grounds.

April 2 - A department representative will be on the grounds to inspect each pound.

April 5 - Allocations will be made for each pound operator that has a completed pound in the fishing area.

April 5 - Kelp permits will be available.

- April 6 The fishery will open to the capture of herring to be transferred into pounds.
- June 7 Pounds must be completely removed from the water.

REGULATIONS

The Alaska Board of Fisheries approved the following regulations creating the Hoonah Sound pound fishery: 5AAC 27.110. FISHING SEASONS (f) and 5AAC 27.185. MANAGEMENT PLAN FOR HERRING SPAWN-ON-KELP IN POUNDS. (a),(b),(c),(d),(e) and (f)(1) through (6);

- 1. Herring spawn-on-kelp in pounds may be taken only during periods established by emergency order.
- 2. Herring pounds for the taking of spawn-on-kelp in pounds may be operated only under terms of a permit issued by the department.
- 3. Pounds for the taking of herring spawn-on-kelp in pounds may be operated only in waters of Section 13-C west of the longitude of Nesmeni Point. <u>PLEASE NOTE</u>: The fishing boundary has been changed to avoid navigational hazards at the entrance to Peril Straits. The new boundary is described on page 4 under "Fishery Location".
- 4. The current allocation allows for 150 tons of herring to be captured and transferred to the pounds. The spawn-on-kelp harvest objective was set based on the ratio of one ton of spawn-on-kelp for each 12.5 tons of herring allocated to the fishery. This will allow for a 1994 quota of 12 tons of spawn-on-kelp product. The department will manage the fishery to achieve this harvest objective by restricting those persons holding permits to a specified number of kelp blades.
- 5. The department shall divide the harvest allocation and the amount of herring available for impounding equally among permit holders.
- 6. The operator of a pound shall apply for a permit issued by the department no later than January 31 of each calendar year.
- 7. The permit must specify the following:
 - (a) The location where pounds may be operated.
 - (b) The date by which pounds must be operational.

- (c) The size of, identification requirements for, and method of operation of pounds.
- (d) The location and methods for taking, retention, and release of herring and kelp to be used in a pound for the production of herring spawn-on-kelp.
- (e) The harvest reporting requirements for pound operators; and
- (f) Other guidelines determined by the department to be necessary for the conservation and management of herring and kelp, and the health, safety, and general welfare of the public.
- 8. The holder of a herring pound permit shall weigh all spawn-on-kelp taken at the time it is removed from the pound. A representative of the department will inspect and seal each container of spawn-on-kelp (including trimmings) before it is transported from the grounds for processing.
- 9. Herring for placement in herring spawn-on-kelp pounds may be captured only with purse seines or hand purse seines.

FISHERY LOCATION

The fishery, by regulation, was designated for the waters of Hoonah Sound, located in regulatory Section 13-C, west of the longitude of Nismeni Point and north of Pogibshi Point. However, the U.S. Coast Guard has requested the department prohibit the operation of herring pounds at the entrance to Peril Strait because of navigational hazards. To ensure an orderly fishery and promote vessel safety, the department has agreed to limit the operations of pounds to areas outside of the main shipping lanes. To accomplish this, pounds will be permitted to be anchored only in the following waters:

Section 13-C: in the waters of Hoonah Sound west of a line projected from Point Marie (57°33'05" N. latitude, 135°34'15" W. longitude) bearing 43° true to a point on the northern shore of Hoonah Sound (57°37'23" N. latitude, 135°27'00" W. longitude) (Figure 1).

HERRING STOCK STATUS

Historically, the Hoonah Sound herring stock size has been approximately 1,500 tons of spawning biomass (Table 1). However, in 1989, a record spawn of 17 nautical miles was recorded and the spawning

population was estimated to be approximately 4,000 tons. In 1993, 5.75 nautical miles of spawn was recorded, resulting in a spawning biomass of 1,099 tons. In 1993 the spawning stock declined substantially from higher levels seen during the past several years.

Herring spawning normally occurs in Hoonah Sound between the last week in April and the first week in May. The earliest recorded spawning occurred April 13, 1990. In 1993, spawning occurred from April 27-29. Traditionally, herring spawn along the shoreline between Fick Cove and Ushk Point (located at the northern entrance to Ushk Bay), and around Emmons Island. Some spawning has also been documented along the north shore of Hoonah Sound from Broad Island into the North Arm. In 1993, spawning occurred primarily along the south and west shorelines of Emmons Island, along the shoreline from Fick Cove to Rogers Point, and near White Cliff point on Moser Island.

PERMIT APPLICATION PROCEDURES

To establish eligibility for the 1994 pound fishery, an operator must submit a permit application to any Southeast Alaska Fish and Game office by <u>January 31</u>, <u>1994</u>. Applications sent by mail must be postmarked no later than January 31. Permit applications will be available by December 21, 1993 at any Fish and Game Office, or they can be obtained by writing the Department of Fish and Game, Commercial Fisheries Management and Development Division, 304 Lake Street, Room 103, Sitka, Alaska 99835-7563.

On, or about, February 8, the department will issue a permit to each applicant who has met the January 31 deadline. The permit will specify conditions that will be required of each pound operator.

PERMIT REQUIREMENTS

Existing regulations require the department to establish permit stipulations for management of the Hoonah Sound pound fishery. The following stipulations will be specified on each permit:

- A herring spawn-on-kelp pound is defined as a rigid frame structure with adequate buoyancy to support a net enclosure and spawn-on-kelp, used to retain herring alive over extended periods of time. If 150 lbs. of weight placed on any side of the pound submerges a side of the structure, the pound will be declared ineligible.
- 2. Each permit holder must operate a single pound. Pound operators may cooperatively work together by connecting and anchoring their pounds together. However, each pound

must have its own net enclosure and be capable of retaining herring when separated from other pounds.

- 3. Each permit holder is required to have a completed pound in the fishing area by April 1.

 A pound will be considered complete when it is fully assembled, anchored offshore, and ready for the installation of the webbing. A department representative will be in the fishing area on April 2 to ensure that each pound is fully assembled. Pound operators need not be present at their pound site for this inspection, however, pounds must be clearly identified as stated in requirement #5.
- 4. Permit holders may locate their pound only in the following waters; Section 13-C: in the waters of Hoonah Sound west of a line projected from Point Marie (57°33'05" N. latitude, 135°34'15" W. longitude) bearing 43° true to a point on the northern shore of Hoonah Sound (57°37'23" N. latitude, 135°27'00" W. longitude) (Figure 1).
- 5. Each pound must be identified by an upright sign in a conspicuous place with the permittee's full name and the number which is assigned on the stick-on label on the first page of the permit. Letters and numbers must be at least 6 inches high and with lines at least one-half inch wide that contrast with the background. Pound numbers must also be permanently affixed to the top surface of the pound structure.
- 6. The pound must be constructed so there is a minimum inside water surface area of 250 square feet. This restriction is necessary to avoid over-crowding of herring.
- 7. Each pound must be constructed to include 6 feet of surplus webbing. Initially, this webbing should be gathered at the surface in such a manner that it can be easily lowered into the water if the submerged webbing becomes egg-saturated to the extent that it prevents adequate water circulation which could cause suffocation of impounded herring.
- 8. Each permit holder must be physically present in the fishing area continuously from the time herring are introduced into the pound until the spawn-on-kelp is harvested.
- 9. The set opening date when pound operators may capture herring to be transferred into pounds will be 12:01 a.m., April 6, 1994. If it appears that spawning will occur earlier than this date, the fishery may need to be opened earlier by Field Announcement to avoid the loss of the fishery.
- 10. Purse seines and hand purse seines will be the only legal gear to harvest herring for the pounds.

- 11. The transport of herring to the pound site must be done with the pound itself or a towable net pen. Transporting with a purse seine will not be allowed. Pound operators are also advised to tow slowly to avoid crushing herring against the net.
- 12. As a general rule, herring may be held for a maximum of 8 days or until they are 80% spawned out, whichever occurs first. Retention of herring for longer periods will be allowed only with special authorization by the department.
- 13. Open pounding will <u>not</u> be a legal method of operating a pound. Nets may not be lowered in a pound to allow for free movement of herring into a pound. Pound operators may only lower their nets when transferring herring into the pound and when releasing herring immediately prior to the time the spawn-on-kelp will be harvested from the pound.
- 14. All lines of kelp must be plainly and legibly marked with the number of kelp blades on that line. This new permit stipulation was requested by Fish and Wildlife Protection to help ensure that kelp blade allocations are not exceeded. (Duct tape numbered with waterproof ink will satisfy this requirement.)
- 15. A pound operator may only introduce their allocated limit of herring into their pound one time. Pound operators will not be allowed to release their herring and then capture more herring for the same pound.
- 16. After harvesting their product or when discontinuing operation all fishermen must first contact the department before leaving the fishing grounds.
- 17. After release of the captured herring, the pound, including webbing, will remain in place for a minimum of four weeks. Egg covered webbing must remain on the pound frame in the original configuration with adequate water circulation on all sides to optimize hatching success. The department will notify pound operators through a news release when pounds may be removed from the water.
- 18. The permit must be in the possession of the pound operator at all times.
- 19. The pound structure must be completely removed from the water by June 7, 1994.
- 20. The Alaska Board of Fisheries has adopted a new regulation setting a maximum size limit for herring pound nets to be implemented for the 1995 fishery. This restriction is necessary to avoid exceeding the herring harvest limit established for the fishery. A herring pound net size limit of not more than a 400 square foot opening at the water surface will be established. This new regulation will not be in effect during the 1994 fishery.

HARVEST OF KELP

A separate permit is required to harvest kelp for use in the pounds (5AAC 37.900). Kelp harvest permits may be obtained from local department offices. Based on results from the past two years' fisheries, approximately 2 tons, or 15,000 blades, of kelp is needed to produce 12 tons of spawn-on-kelp. This assumes that a 600% weight gain is realized from the kelp to the spawn-on-kelp product harvested. Kelp blades will be allocated equally among the participating fishermen. Kelp permits may be obtained from local Fish and Game offices beginning April 5 and must be completed and returned to the department within 30 days after harvesting of kelp.

ALLOCATION OF GUIDELINE HARVEST

On, or about, April 5 the amount of kelp blades necessary to achieve the 12 ton spawn-on-kelp guideline harvest, as well as the 150 ton allocation of herring, will be divided equally among all permit holders who have completed pounds in the fishing area by April 1, 1994. Notification of the individual allocations will be announced by news release. Further adjustments to the individual allocations may occur after April 5 only if a significant number of permit holders drop out of the fishery after this date.

Deadloss resulting from the capture, transfer, and holding of herring will be subtracted from individual pound allocations.

HARVEST AND PRODUCTION

Each permit holder's spawn-on-kelp blades must remain separate from other permit holder's spawn-on-kelp blades until after processing. Permit holders will be allowed to harvest <u>all</u> the product produced in their pound. A permit holder's fish ticket must report only the spawn-on-kelp harvested from his/her own pound. A representative of the department must inspect and seal all containers of harvested spawn-on-kelp product (including trimmings) before they are transported from the fishing grounds for processing. All fishermen and any vessel carrying spawn-on-kelp product must first contact the department before leaving the fishing grounds.

FISHERY CONDUCT AND MANAGEMENT

Suitable sites for pounds in Hoonah Sound are limited. To avoid herring mortality and damage to the pounds, operators should locate their pounds in an area with minimal exposure to wind and wave action, and with a relatively deep bottom. The distance from where the herring are captured and the pound site should also be considered since long towing distances can cause considerable stress and mortality of herring. The area between Emmons Island and Vixen Island has been the main focus for anchoring pounds since herring normally spawn near this area.

The department will station a state vessel and personnel in Hoonah Sound when herring are available for capture. Department personnel will closely monitor herring activities and all phases of the fishery to assure compliance with permit conditions. All fishery announcements, including updates of herring activities and fishery openings, will be broadcast by VHF radio, Channel 10. Fishermen are strongly encouraged to have a VHF radio.

The department will be closely monitoring herring activity in Hoonah Sound by vessel and aerial surveys. There will be a set date when pound operators may capture herring to be transferred into pounds. This date will be 12:01 AM, April 6. If it appears spawning will occur earlier than this date, the fishery may need to be opened earlier to avoid loss of the fishery.

Department personnel will closely monitor the capture and transfer of herring into pounds to ensure that allocations are not exceeded and to document any mortality of herring. To avoid mortality, the transport of herring to the pound site must be done with the pound itself or a towable net pen. Transporting with a purse seine will not be allowed. Pound operators are also advised to tow slowly to avoid crushing herring against the net. The department will regulate the fishery by setting and enforcing a strict limitation on the number of kelp blades that can be put in each permit holders pound. Pound operators will then be allowed to harvest all of the spawn-on-kelp from their pounds.

REQUIREMENTS FOR BUYERS

Operators of floating processing vessels will be required to report in person, by VHF radio, or by telephone, to the Department of Fish and Game office in Sitka before the start of processing operations in Hoonah Sound. These reporting requirements are specified by regulation 5AAC 39.130 (f).

Fish tickets must be submitted to the department within 7 days after landing. Fish tickets should be sent to the Department of Fish and Game, Commercial Fisheries Management and Development Division, 304

Lake St. Room 103, Sitka, Alaska 99835-7563, or submitted to a representative of the department before leaving the fishing area.

Floating processing vessels or tenders carrying spawn-on-kelp product from the fishery should first contact the department before leaving the fishing grounds.

LICENSE REQUIREMENTS

In addition to the Alaska Department of Fish and Game permits required to operate a pound and harvest kelp for transport into a pound, pound operators must also obtain an interim use permit (L21A) from the Commercial Fisheries Entry Commission. Individuals who do not have pound permits but are assisting in the operation of the fishery in any manner must have a crew member license. All commercial vessels (including skiffs) used in the fishery are required to be licensed with the Limited Entry Commission. Fishermen are required to display the permanent vessel license plate (ADF&G number) on both sides of the hull, cabin, or mast in permanent symbols at least 12 inches high and with lines at least 1 inch wide that contrast with the background.

Applications for vessel and interim use permits are available from all offices of the Department of Fish and Game or can be obtained by writing the Commercial Fisheries Entry Commission, 8800-109 Glacier Hwy, Juneau, Alaska 99801-8079. Crew member licenses may be obtained from local vendors in most communities.

NEW REGULATIONS EFFECTIVE IN 1995

During the Alaska Board of Fisheries meeting held in Ketchikan January 11-19, 1994, new regulations were adopted for the Southeast Alaska herring spawn-on-kelp fisheries which will become effective in time for the 1995 fisheries.

A maximum size limit for herring pound nets of not more than a 400 square foot opening at the water surface was adopted. Those rebuilding pounds or constructing new pounds in 1994 may want to consider this future requirement to avoid rebuilding their pounds for subsequent pound fisheries.

Other regulation changes adopted included: specifying the location where herring pounds may be operated, and the date when herring may be captured. The area and date are the same as used during last year's fishery under emergency order authority.

The regulation requiring the department to divide the herring harvest limit equally among those operating permits has been repealed. The 150 ton herring harvest limit for the Hoonah Sound fishery will remain unchanged, and therefore the spawn-on-kelp harvest objective for the fishery will remain at 12 tons. Individual herring allocations will no longer be required.

The regulation requiring weighing of all spawn-on-kelp product at the time it is removed from the pound has been repealed. This regulation became unnecessary since fishermen are allowed to harvest all the product from their pounds and weighing takes place at the processing plants.

OTHER AGENCY REQUIREMENTS

Prospective pound operators are advised to consider other agency requirements for constructing and operating pounds in Hoonah Sound. Some of these requirements are discussed briefly below; however, a pound operator is urged to contact the U.S. Forest Service, the National Marine Fisheries Service, and the United States Coast Guard to determine other regulations and requirements.

U.S. Forest Service

In the Hoonah Sound area, the U.S. Forest Service has jurisdiction over and manages the land above mean high tide. People who plan to use National Forest land in connection with the fishery must apply for a special use permit from the Forest Service prior to any occupancy. These land uses include temporary camps, temporary equipment storage, and herring pound storage.

Special use permit applications are available at the Sitka Ranger District Office, 204 Siginaka Way, Sitka, Alaska 99835, (907-747-6671). Completed applications should be submitted to the Sitka Ranger District by February 10, 1994. The permit fee is \$100.00, and in most cases a bond will be required.

Since this is a commercial venture, free wood will not be available for pound construction. According to current Forest Service rates, the cost of logs is \$8.00 per linear foot. Requests for timber should be made to the Sitka Ranger District no later than February 10, 1994.

Firewood for personal use may be taken free of charge. Only dead or downed trees may be used for firewood.

Please contact the Sitka Ranger District with any questions about use or occupancy of National Forest lands.

National Marine Fisheries Service

The National Marine Fisheries Service (907-747-6940) regulates activities which might harm marine mammals. Herring pounds are classed as a Category 3 fishery, which means that participating fishermen do not need to apply for an "exemption". Fishermen may not kill sea lions, sea otters, whales, porpoises or dolphins. Fishermen must report mortality of marine mammals associated with their activities. Since federal regulations may change at any time, fishermen should check with their local NMFS office before fishing.

United States Coast Guard

Structures such as floating fish pens are subject to the requirements of the Code of Federal Regulations, Title 33, Part 64. This regulation requires an owner to apply for a Coast Guard permit and to install and maintain a light or other private aid to navigation if the Coast Guard determines it to be necessary to protect maritime navigation.

The proposed pens of the Hoonah Sound Spawn-on-Kelp Pound Fishery do not require permits for private aids to navigation at this time, provided the owners:

- 1. Place two signs on opposite corners of the structure. These signs will be worded "Danger, Fish Pens" (Figure 2).
- 2. Place a single, all-points white light on one corner sign on structures less than 400 sq. ft. in size.
- 3. Place a single all-points white light on every corner of structures larger than 400 sq. ft. in size.
- 4. Anchor fish pens within the boundary area specified by this permit.
- 5. Remove the pens from the water by June 7, 1994.

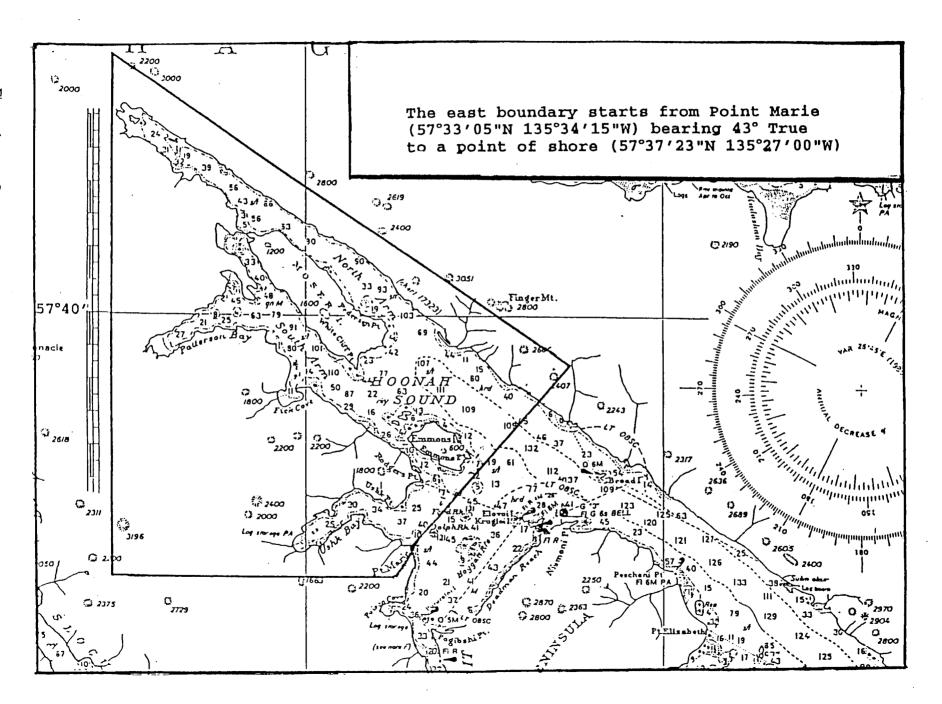
If all these conditions are not met, the permit holder must apply to the Coast Guard for an individual "Private Aids to Navigation permit". If you have questions, call Master Chief Yates at the Coast Guard Aids to Navigation office, at 463-2254.

Table 1. Hoonah Sound herring stock spawn survey, 1981-1993.

YEAR DATES		SPAWNING NAUTICA MILES OF SPAWN	SPAWNING STOCK BIOMASS (TONS	
1971	5/10-5/17	2.5	N/A	
1972	5/11-5/12	1.5	N/A	
1973	N/A	1.0	N/A	
1974	5/14	3.0	N/A	
1975	N/A	0	N/A	
1976	5/5	1.0	N/A	
1977	N/A	3.5	N/A	
1978	N/A	5.3	N/A	
1979	N/A	N/A	N/A	
1980	N/A	N/A	N/A	
1981	4/30-5/01	2.25	753	
1982	4/29-5/01	1.5	N/A	
1983	5/01	1.0	N/A	
1984	4/26-5/01	3.0	540	
1985	5/01-5/03	3.5	N/A	
1986	4/28-5/01	3.75	N/A	
1987	4/28-5/02	3.75	740	
1988	4/30-5/01	5.0	N/A	
1989	4/16-4/20	17.0	4,000	
1990	4/13-4/28	10.0	2,350	
1991	4/19-4/24	8.7	2,175	
1992	4/22-4/24	10.8	5,714	
1993	4/27-4/29	5.75	1,099	
AVERAGE		4.7	2,171	

Table 2. Hoonah Sound herring spawn-on-kelp fishery summary, 1990-1993.

	1990	1991	1992	1993
Herring Quota (tons)	150	150	150	150
Harvest Quota (tons)	11	12	12	12
Harvest (tons)	11.9	13.25	23.12	14.0
Ex-Vessel Value	\$164,083	\$206,401	\$322,343	\$344,907
Average Price/lb	\$6.90	\$7.79	\$6.97	\$12.33
Average Income	\$1,657	\$2,487	\$2,985	\$5,389
Number of Applicants	400	185	199	230
Number of Pounds	128	104	120	115
Number Selling Product	99	83	108	64
Herring Allocation (lbs)	2,300	3,000	2,500	2,650
Kelp Allocation (blades)	240	280	240	160
Number of Kelp Permits	26	25	27	25
Kelp Blade Harvest	31,260	28,355	27,255	16,260
Harvest Limit (lbs)	170	none	none	none
Fishery Open - Closed	4/13-4/22	4/6-4/25	4/6-4/26	4/6-5/3
Fishing Occurred	4/13-4/22	4/15-4/25	4/17-4/26	4/26-5/2
Harvest Occurred	4/18-	4/22-4/29	4/22-4/30	4/25-5/2



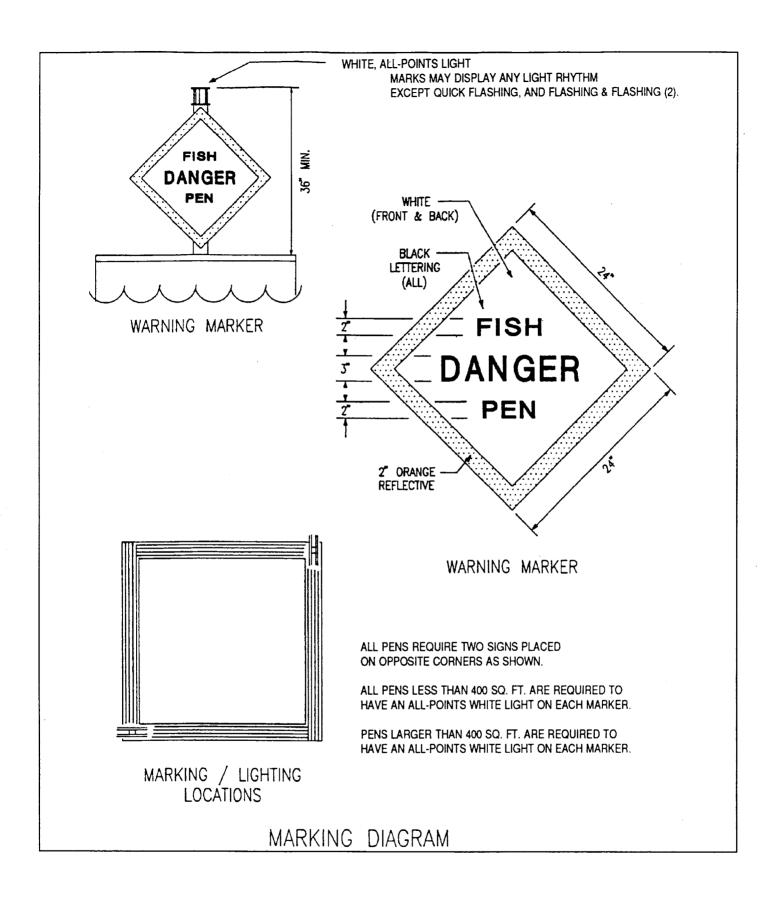


Figure 2. Coast Guard requirements for marking pounds.

LIST OF MANAGEMENT CONTACTS

Following are Commercial Fisheries Division contacts regarding this management plan:

Scott Marshall

Region I Supervisor

P.O. Box 240020

Douglas, Alaska 99824

(907) 465-4250

Doug Mecum

Region I Management Biologist

P.O. Box 240020

Douglas, Alaska 99824

(907) 465-4250

Don Ingledue

Area Management Biologist

P.O. Box 240020

Douglas, Alaska 99824

(907) 465-4250

Robert Larson

Herring Research Biologist

P.O. Box 667

Petersburg, Alaska 99833

(907) 772-3801

Phil Doherty

Area Management Biologist

2030 Sea Level Dr. Ste. 205 Ketchikan, Alaska 99901

(907) 225-5195

William Bergmann

Area Management Biologist

P.O. Box 667

Petersburg, Alaska 99833

(907) 772-3801

Randy Timothy

Assistant Area Biologist

P.O. Box 200

Wrangell, Alaska 99929

(907) 874-3822

Bob DeJong

Area Management Biologist

304 Lake St., Rm. 103 Sitka, Alaska 99835

(907) 747-6688

Ray Staska

Area Management Biologist

P.O. Box 431

Haines, Alaska 99827

(907) 766-2830

Bill Davidson

Assistant Management Biologist

304 Lake St., Rm. 103

Sitka, AK 99835 (907) 747-6688

- 16 -

ADA Publications Statement

The Alaska Department of Fish and Game administers all programs and activities free from discrimination on the basis of sex, color, race, religion, national origin, age, marital status, pregnancy, parenthood, or disability. For information on alternative formats available for this and other department publications, contact the department ADA Coordinator at (voice) 907-465-4120, (TDD) 907-465-3646. Any person who believes s/he has been discriminated against should write to: ADF&G, P.O. Box 25526, Juneau, AK 99802-5526; or O.E.O., U.S. Department of the Interior, Washington, DC 20240.